Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200

#### **Purchasing Receipts**

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging
PO038929	MEC002- VU	1	1	Net 30		7075-T73 Bar 4.0 X 4.0 Grain Direction Along 4" Wide : MATERIAL: 7075-T73 OR 7075- T7351/T73510/T73511 BAR PER AMS-QQ-A- 200/11 OR AMS-QQ-A- 225/9 OR AMS 4124 OR AMS-QQ-A- 250/12 OR AMS 4078 receive ft				48	2/26/2018	48		S043346	Stock	2/16/2018	\$ 107.58 / ft	(
		6				7075-T6S Sheet 7" Thick Plate X 2" Wide: MATERIAL: 7075- T6762 ALUMINUM SHEET AS PER QQ- A-250/12 OR AMS- QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft						45	O	5043347	Stock	2/16/2018	\$ 78.52 / ft	0
		11				7075-T6S Sheet 1"" Thick Plate X 2.5"" Wide: MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 DR AMS-QQ-A- 250/12 OR AMS 4045 DR ASTM B209 eceive ft				12		12	S	6043348	Stock	2/16/2018	\$ 30.42 / ft	0
									Total:	108		105		-				

Plex 2/16/2018 2:28 PM Dart.Dubois.Pascal



## PACKING SLIP/ CERTIFICATE OF CONFORMANCE

Page 1 of 2

A. M. Castle & Co.

Shipment No:3511510

37.6174		7 0 5 4 3 5 8 6	ALUMINUM	- N - N - N - N - N - N - N - N - N - N
I) Length (IN) Shipped Oty(LBS)	Mech Id PCS Width (IN)	Heat Number M	Ö	Delivery No.
	RTS	END USE: COMMERCIAL AIRGRAFT PARTS		
		Email P/s and certs to:	Email P/s	
TECEIVE AT TIME OF DELIVERY	EX:HEAT	ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT	ALL MAT	9
1.00 PCS		FBWORK MIST FOLLOW ORD	ΔΙΙ ΡΔΡ	Details
The control of the co	1 00 DCS			38929
Invoice Oft	Ordered Oty	Part Number	0.000	Purchase Order No
dartaero.com	Email P/s and certs to: clavoie@dartaero.com			
FICATIONS: AMS-QQ-A-250/12				
+ .1250/0000 IN) X 144.5 IN () -	CUT 2SIDED TO 2.5 IN ( + .1250			
W.USI.48.5000.144.5000	1.0000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000	752188.MO	ω	5033934
	Description	Item No	Line No	Order No
	Final Destination Branch - WIE		Details	Shipment Details
3511510-2	XPO LOGISTICS FREIGHT	Prepaid	ORIGIN	
DOF NO	(2110			13_FFR_18
	Carrier	Freight Terms	oed F.O.B.	Date Shipped
CA				
HAWRESBURY, ON K6A 1K7	K6A 1K7 CAN	CA		USA
1270 ABERDEEN		1270 ABERDEEN	DRAULIC KS 67216	WICHITA, KS 67216
DART AEROSPACE LTD	ROSPACE LTD	DART AEROSPACE LTD	TLE & CO.	A. M. CASTLE & CO
Deliver To:	Ship To:	Sold To:		Ship From:

These items are controlled by the U.S. Government and authorized a export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned



Reviewed by Authorized Castle Metals Representative:

PACKING SLIP/ CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Date: Name:

Page 2 of 2

Date Printed: 13-FEB-2018 02:44:47 PM



## PACKING SLIP/ CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Page 1 of 2

Shipment No:3511510

	1				
Ship From:		.:	Ship To:	Deliver To:	
A. M. CASTLE & CO. 3050 S HYDRAULIC WICHITA, KS 67216 USA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped	F.0.B.	Freight Terms	Carrier	BOL No	
13-FEB-18	ORIGIN	Prepaid	XPO LOGISTICS FREIGHT		

Final Destination Branch - WIE

Shipment Details

5033934	בווע	Item No	Description		
	-	750616.MO	2.0000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000	.ALUMINUM.USI.4	3.5000.144.5000
			CUT 2SIDED TO 7 IN	I (+ .1250/0000 II	CUT 2SIDED TO 7 IN (+.1250/0000 IN) X 107 IN () - ALUMINUM
			PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	ICATIONS: AMS-Q	Ź-A-250/12
			Email P/s and certs to: clavoie@dartaero.com	: clavoie@dartaerc	.com
Purchase Order No		Part Number	Ordered Qty		Invoice Qtv
38929			5.00 PCS		5.00 PCS
Details	ALL PAPE	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY	ORDER / CUSTOMER MU	ST RECEIVE AT TI	WE OF DELIVERY
	ALL MATI	ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S	FYING MARKINGS EX:H	EAT #'S	i
	Email P/s	Email P/s and certs to: clavoie@dartaero.com	aero.com		
	END USE	END USER: DART AEROSPACE			
	END USE	END USE: COMMERCIAL AIRCRAFT PARTS	T PARTS		
Delivery No.	Mill/Source	Heat-Number	Mech Id PCS	Width (IN) Len	Width (IN) Length (IN) Shipped Oty (I BS)
121625932	CONSTELLIUM		r.	()	773 1974
	ROLLED /	1	)		
	PRODUCTS (	2 8 8 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			

These items are controlled by the U.S. Government and authorized to export only before country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or atter being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description.

Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.



Reviewed by Authorized Castle Metals Representative:

PACKING SLIP/ CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Date: Name:

Page 2 of 2

Date Printed: 13-FEB-2018 02:44:47 PM

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Date Printed: 15-FEB-2018 02:27:20 PM

Castle Metals\*
A. M. Castle & Co.

PACKING SLIP/ CERTIFICATE OF CONFORMANCE Page 1 of 2

			J 0 - LR
Shipment No:3514120  Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7	BOL No 3514120-2	Description 4.0000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 48.5 IN ( (GRAIN TO RUN ALONG 4")) X 4 IN ( + SAW SPECIFICATIONS: AMS-QQ-4-250/12 Email P/s and certs to: clavoie@dartaero.com Ordered Qty 12.00 PCS ER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY COMPARKINGS EX:HEAT #'S	Width (IN) Length (IN) Shipped Qty(LBS) 160.8277 804.1384
Ship To: DART AEROSPACE LTD 1270 ABERDEEN 1K7 HAWKESBURY, ON K6A 1K7 CAN	Carrier   MANITOULIN   Final Destination Branch - TOR	Line No   Item No   Description   752132.MO   4.0000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000   CUT 2SIDED TO 48.5 IN ( (GRAIN TO RUN ALONG 4")) X SAW SPECIFICATIONS: AMS-QQ-A-250/12   Email P/s and certs to: clavoie@dartaero.com   Ordered Qty   12.00 PCS   ALL MATERIAL MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY END USER: DART AEROSPACE   EMBINIST COMPANDIAL	d PCS 2 10 10
Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	B. Freight Terms	Line No Item No 752132.MO 4.0  T52132.MO CU CU CU SA ALL PAPERWORK MUST FOLLOW ORDER Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE	Source Heat Number Mech I Mech I INUM  R INUM
Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	Date Shipped F.O.B. 15-FEB-18 ORIGIN Shipment Details	Purchase Order No 38929  Details ALL PAP Email P/s Email P/s End USE	Delivery No. MIII/Source 121623367 KAISER ALUMINUM 121623367 KAISER ALUMINUM



PACKING SLIP/ CERTHFICATE OF CONFORMANCE

A. M. Castle & Co.

Page 2 of 2

FEB 15 2018

Date Printed: 15-FEB-2018 02:27:20 PM

STRAIGHT BILL OF LADING -SE	IORT FORM - ORI	GINAL - NO	) I NEGOTIABLE			Ship	per No.:	35113	10-2		
RECEIVED, Subject to the classifi The property described below, in a packages unknown), marked, con- understood throughout this contract contract) agrees to carry to its usu another carrier on the route to said over all or any portion of said route	apparent good orde signed, and destine at as meaning any al place of delivery d destination. It is	er, except as ed as indicat person or co at said dest mutually agre d as to each	noted (contents and cor ed below, which said car prporation in possession tination, if on it's route, of eed, as to each carrier of the party at any time interes	ndition of contentrier (the word can of the property therwise to delive fall or any said party in all or any	arrier being ander the er to property of said	FRO	M AT:	3050 WICH	Castle & Co. S HYDRAULIC ITA 216 USA		
property, that every service to be p Domestic Straight Bill of Lading se	t forth (1) in Unifor	m Freight Cl	lassification in effect on t	he date hereof, i	t this is a	Ship	Date:	13-FE	B-18		
rail of rail-water shipment, or (2) in Consigned To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY ON K6A 1K7 CAN	the applicable mo	tor carrier cli livery ins _ LOADS CKING LI	assification of tariff this is structions: MUST BE TARPE IST AND TEST RE E WILL REFUSE.	ED. DELIVE	shipment.	Prep REM Ray PO B	ment Terms: aid IIT FREIGHT I Frans Managel Box 1210 hington PA 15	ment, Ir			
Carrier Name:				А	dditiona	Insur	ance Coverag	e:			
XPO LOGISTICS FRE	IGHT	The agre	eed or declare valu	ue for the pro	operty is I	nereby _ <b>per</b>		ted by	the shipper to be no	exceedin	g: 
Shipment Breakdown:							Shipment W				
Quantity Packaging Class Com					modity		Product	811 L			
1 SKID 50 Metal					Product Product		Dunnage	43 LB			
1002							Gross	854 L	BS		
Customer P	0	T Col	les Order No.	Line No.	:TAIL:	Cas	tle Item No.		Quantity Shipped	Castle U	MO
38929	0	Sai	5033934	3		5033934*3*1 1 PCS					
38929			5033934	1			5033934*1*1 5 PCS				
Subject to Section 7 of Condition the consignee without recourse.  The carrier shall not make delivither charges.	to the consignor, t	ne consignor	If this shipment is to be or shall sign the following	statements.	If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE: Where the rate is dependent on value, the shippers are required to state specifically in writing the agreed or declared value of the property.						
THIS SHIPMENT IS TO BE TEL TERMS AND CONDITIONS OF LADING	NDER RECEIVED THE STEAMSHIF	AND TO BE COMPANI	E CARRIED SUBJECT TO ES CURRENT FORM BI	O ALL	The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding					to be	
THIS IS TO CERTIFY THAT THE DESCRIBED, PACKAGED, MATRANSPORTATION ACCORD OF TRANSPORTATION.	RKED AND LABE	LED, AND A	RE IN PROPER CONDI	TION FOR	Customer Canadian	is respor laws, inc	luding but not limite	d to U.S.	nts and compliance with U and Canadian Export laws	nited States a and regulation	nd ns.
SHIPPER, PER:	Alli	sons	RYONIS	-40 V=	Per		S	Shipper	No.: 3511510-2		
	insert	creator's	2.8			D	river's Signatu	re	De	ite	
PROOF OF DELIVERY		ure / Date	9		Name		lease Print Na	me Her	е		
*				-					All pages r	nust be si	gned

Page 1 of 1

1340@ 120×36×7 17W20@ 150×4×4 STRAIGHT BILL OF LADING -SHORT FORM - ORIGINAL - NOT NEGOTIABLE
RECEIVED, Subject to the classification and tariffs in effect on the date of issue of this Bill of Lading
The property described below, in apparent good order, except as noted (contents and condition of contents of
packages anknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being
understood throughout this contract as meaning any person or corporation in possession of the property under the
contract) agrees to carry to its usual place of delivery at said destination, if on it's route, otherwise to deliver to
another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any said property
over all or any portion of said route to destination, and as to each pagy any time interested in all or any of said
Domestic Streight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a
rail of rail-water shipment, or (2) in the applicable motor carrier classification or tariff this is a motor carrier shipment.

Delivery instructions: STRAIGHT BILL OF LADING -SHORT FORM - ORIGINAL - NOT NEGOTIABLE Shipper No .: 3511510-2 FROM AT: A. M. Castle & Co. 3050 S HYDRAULIC WICHITA KS 67216 USA Ship Date: 13-FEB-18 Consigned To: Delivery instructions: Payment Terms: DART AEROSPACE LTD ALL LOADS MUST BE TARPED. DELIVER 1270 ABERDEEN Prepaid PACKING LIST AND TEST REPORTS OR REMIT FREIGHT INVOICES TO: HAWKESBURY ON CONSIGNEE WILL REFUSE. RayTrans Management, Inc. K6A 1K7 CAN PO Box 1210 Washington PA 15301 Carrier Name: Additional Insurance Coverage: XPO LOGISTICS FREIGHT The agreed or declare value for the property is hereby specifically stated by the shipper to be not exceeding: per Shipment Breakdown: Shipment Weights: Quantity Packaging Class Commodity Product 811 LBS Metal Product Dunnage 43 LBS Metal Product Gross 854 LBS ORDER DETAIL: Customer PO Sales Order No Line No. Castle Item No Quantity Shipped 38929 5033934 3 5033934\*3\*1 38929 5033934 5033934\*1\*1 Subject to Section 7 of Conditions of applicable bill of Lading. If this shipment is to be delivered to the consignee without recourse to the consignor, the consignor shall sign the following statements. The carrier shall not make delivery of this shipment without payment of freight and all other lawful shares. If the shipment moves between two ports by a carrier by water, the law requires that it lading shall state whether it is "carrier's or shipper's weight." NOTE: Where the rate is dependent on value, the shippers are required to state specifically in writing the agr THIS SHIPMENT IS TO BE TENDER RECEIVED AND TO BE CARRIED SUBJECT TO ALL TERMS AND CONDITIONS OF THE STEAMSHIP COMPANIES CURRENT FORM BILL OF The agreed or declared value of the property is hereby specifically stated by the shi not exceeding THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT, Customer is responsible for all shipping documents and compliance with United States a Canadian laws, including but not limited to U.S. and Canadian Export laws and regulation Shipper No.: 3511510-2 SHIPPER, PER: Per insert creator's name Date Driver's Signature PROOF OF DELIVERY: Name Signature / Date Please Print Name Here All pages must be signed

Page 1 of 1

134D@ 120×36×7



## PACKING SLIP/ CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3511510

A. M. Castle & Co.

3511510-2	XPO LOGISTICS FREIGHT	Prepaid	ORIGIN	13-FEB-18
BOL No	Carrier	Freight Terms	F.O.B.	Date Shipped
A	CA			
K6A 1K7	K6A 1K7 CAN K6	CA		USA
HAWKESBURY, ON	HAWKESBURY, ON H.	HAWKESBURY, ON K6A 1K7	16	WICHITA, KS 67216
1270 ABERDEEN	1270 ABERDEEN 12	1270 ABERDEEN	ਨ	3050 S HYDRAULIC
DART AEROSPACE LTD	DART AEROSPACE LTD D	DART AEROSPACE LTD	Ö	A. M. CASTLE & CO
Deliver To:	Ship To:	Sold To:		Ship From:

Shipment Details

Final Destination Branch - WIE

Order No	Line No	Item No	Description		
5033934		750616.MO	2.0000.PL.7075.T65	2.0000.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000	44.5000
			CUT 2SIDED TO 7	CUT 2SIDED TO 7 IN ( + .1250/0000 IN) X 107 IN () - ALUMINUM	IN () - ALUMINUM
			PLATE SAW SPEC	PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	/12
			Email P/s and certs to:	to: clavoie@dartaero.com	
Purchase Order No		Part Number	Ordered Qty	Invoice Qtv	Qtv
38929			5.00 PCS	5.00 PCS	
Details	ALL PAPE	RWORK MUST FOLLOW O	RDER / CUSTOMER M	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY	DELIVERY
	ALL MATE	ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S	YING MARKINGS EX:	HEAT #'S	
	Email P/s	Email P/s and certs to: clavoie@dartaero.com	ero.com		
	END USE	END USER: DART AEROSPACE			
	END USE	END USE: COMMERCIAL AIRCRAFT PARTS	PARTS		
Delivery No.	Mill/Source	Heat Number	Mech Id PCS	Width (IN) Length (IN) Shipped Oty(LBS)	Shipped Oty(LBS)
121625932	CONSTELLIUM ROLLED PRODUCTS	9 3 8 8 5 0 6	S		773.1274

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

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8600-1651-00 BMO

#### DEPARTMENT OF HOMELAND SECURITY

U.S. Customs and Border Protection

Exp. 04-30-2020

#### CERTIFICATE OF ORIGIN NORTH AMERICAN FREE TRADE AGREEMENT

19 CFR 181.11, 181.22

TAX IDENTIFICATION NUMBER:	
4. IMPORTER NAME, ADDRESS AND EMAIL 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	PRODUČER NAME, ADDRESS AND EMAIL AX IDENTIFICATION NUMBER: vallable Upon Customs Request
(Αλλλ/pp/μιιμ) ο_	AX IDENTIFICATION NUMBER: 36-0879160
ONE TIME SHIPMENT	EXPORTER NAME, ADDRESS AND EMAIL. - M. Castle & Co. 420 Kensington Road, Suite 220 420 Kensington Road, Suite 220
2. BLANKET PERIOD	

sn	οN	SoN	8	760612	(Heat-705435B6)	
				- 20002	1,0000.PL,7075.T651.ALUMINUM.USI.48.5000.144.5000	OM.881527
sn	oN	SoN	8	760612	(Heat-9388506)	
Origin	Cost		Criterion	Classification No.	0000. P41.0008.84.ISU.MUMIMUJA.183T.2707. Jq.0000.S	OM.818087
Country o	.e 19M	o. Producer	Preference	H.S. Tariff	Description of Good(s)	

I certify that:

• I agree to maintain and present upon request, documentation necessary to support this certificate, and to inform, in writing, all persons to liable for any false statements or material omissions made on or in connection with this document; • The information on this document is true and accurate and I assume responsibility for proving such presentations. I understand that I am

North American Free Trade Agreement, and unless specifically exempted in Article 411 or Annex 401, there has been no further production or • The goods originated in the territory of one or more of the parties, and comply with the origin requirements specified for those goods in the whom the certificate was given of any changes that would affect the accuracy or validity of this certificate;

pages, including all attachments · This certificate consists of any preparation outside the territories of the parties; and

11b.COMPANY A. M. Castle & Co.

**OPERATIONS** 119 TITLE

119. EMAIL

111. TELEPHONE NUMBERS

11e. DATE (mm/dd/yyyy)

ALLISON VOGES

11a. AUTHORIZED SIGNATURE

(Voice) 9877-878 (008)

02/13/2018

TIC. NAME

avoges@amcastle.com

(Facsimile)

1 to 1 ageq CBP Form 434 (11/16)



# PACKING SLIP/ CERTIFICATE OF CONFORMANCE

Page 1 of 2

### Shipment Details USA 13-FEB-18 Date Shipped WICHITA, KS 67216 3050 S HYDRAULIC A. M. CASTLE & CO. Ship From: F.O.B. ORIGIN HAWKESBURY, ON K6A 1K7 1270 ABERDEEN DART AEROSPACE LTD Sold To: Freight Terms Prepaid HAWKESBURY, ON Ship To: K6A 1K7 CAN DART AEROSPACE LTD 1270 ABERDEEN XPO LOGISTICS FREIGHT Carrier K6A 1K7 HAWKESBURY, ON DART AEROSPACE LTD Deliver To: 1270 ABERDEEN 3511510-2 BOL No Shipment No:3511510

ALUMINUM	o. Mill/s		Details	Purchase Order No		3033934	Order No	Supurcit Details
M	Mill/Source H	Email P/s and END USER: D	ALL PAPERW ALL MATERIA	Part N		ω	Line No	
	Source Heat Number Mech I	Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE	ORK MUST FOLLOW OF	Part Number		752188.MO	Item No	
	D DCG	ero.com	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY  ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EXHICAT HIS	Ordered Oty	CUT 2SIDED TO 2.5 IN (+.1250/0000 IN) X 144.5 IN () - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	1.0000.PL.7075.T651.ALUMINUM.USI.48.5000 144.5000	Description	Final Destination Branch - WIE

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description.

Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to by U.S. law and regulations.



Reviewed by Authorized Castle Metals Representative:

A. M. Castle & Co.

PACKING SLIP/ CERTIFICATE OF CONFORMANCE

Name:

Date:

Page 2 of 2

	:TAV			
DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA	RY, ON K6A	1270 ABERC	ADANADA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K
регілек то		OT 91HS		SOLD TO:
	38929		9	4909
Terms	Customer P.O. No			1 tooA
		B-2018	13-FE	5033934
Payment Terms	Due Date			Order No.
2835	& Co. (Canada) A.M. CASTLE & CO. (CANADA) INC.   DEPT 410079		Ship From: A. M. Castle & Co. (Canada) Inc. 3050 S HYDRAULIC WICHITA KS 67216 USA	
ERCIAL INVOICE 5033934-1-3511510-2			'ວເ	Castle Metal

Contract No. BOL #: 3511510-2

Shipped Via: XPO LOGISTICS FREIGHT

Freight/INCO Terms: Paid HAWKESBURY ON K6A 1K7 Canada

3,500.68	:e Total: Taxes:						
89.002.£	A\M A\M	ECCN ECCN	Export License NLR	Tariff Code: 7606123030 700.00		Heat Number 9388506 Specifications: AM Email P/s and certs to	
	27.13 LBS 5 PCS 14 / PCS	EZZ	pped Weight: Shipped Qty: Unit Price: 8.5000.144.5000	r <b>dered:</b> 5 PCS 1.ALUMINUM.USI.4; 1. IN ( + .1250/000	o. 0000.PL.7075.T65 10000.PL.7075.T65 1000.PL.7076.T65 1000.PL.	Purchase Order#:: Order #: 5033934 Li Item Description: 2 Cutting Description Process Description	
InnomA	MC	ng Cost / uc				Ordering Informat	#u

Remit to Currency: USD

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s), either in their original form or after being incorporated into other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other country or to any person other than the ultimate destination of the consigner or as otherwise and regulations.

77.336,£

Invoice Total:



Reviewed by Authorized Castle Metals Representative:

# PACKING SLIP/ CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Report Report of the Party of t

Date:

Name:

Page 2 of 2

8600-1651-00 BMO

#### DEPARTMENT OF HOMELAND SECURITY

U.S. Customs and Border Protection

Exb. 04-30-2020

#### CERTIFICATE OF ORIGIN NORTH AMERICAN FREE TRADE AGREEMENT

Shipment# 3511510

19 CFR 181.11, 181.22

PRODUCER NAME, ADDRESS AND EMAIL AX IDENTIFICATION NUMBER: vailable Upon Customs Request	4.IMPORTER NAME, ADDRESS AND EMAIL DART BERDEEN HAWKESBURY, ON K6A 1K7 CA TAX 1DENTIFICATION NUMBER:
AX IDENTIFICATION NUMBER: 36-0879160	(μιμ/qq/λλλλ)
.EXPORTER NAME, ADDRESS AND EMAIL 1. M. Caatle & Co. 420 Kensington Road, Suite 220 3ak Brook, IL 60523 USA	ONE TIME SHIPMENT
EXPORTED NAME APPRECES AND COMM	S BLANKET PERIOD

G1909/ 1 000C.441.000C.64.1CO.MOVIMOSIV.1CO.MOVIMOSIV.1	SU ON SON 8 S120007 00002.441.50000.88.120.MUMUAL.12617.2470.7470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.24707.1470.0000.88.120.MUMUAL.12617.2470.0000.88.120.0000.0000.0000.0000.0000.0	eau)
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I certify that:

• I agree to maintain and present upon request, documentation necessary to support this certificate, and to inform, in writing, all persons to liable for any false statements or material omissions made on or in connection with this document; • The information on this document is true and accurate and I assume responsibility for proving such presentations. I understand that I am

North American Free Trade Agreement, and unless specifically exempted in Article 411 or Annex 401, there has been no further production or • The goods originated in the territory of one or more of the parties, and comply with the origin requirements specified for those goods in the whom the certificate was given of any changes that would affect the accuracy or validity of this certificate;

pages, including all attachments • This certificate consists of any preparation outside the territories of the parties; and

11b.COMPANY A. M. Castle & Co.

avoges@amcastle.com

SNOITARENO 119 TITLE

119. EMAIL

ALLISON VOGES

TIC NAME

111. TELEPHONE NUMBERS

(Voice) **8577-575 (008)** 

11e. DATE (mm/dd/yyyy)

11a. AUTHORIZED SIGNATURE

(Facsimile)

02/13/2018

140 1 age4 CBP Form 434 (11/16)

13 February 2018 15:15:25 PM

Page 4 of 4

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate deslination for use by the ultimate consignee or end-user(s), either in their original form or after being incorporated into other user of the unit of the unit of the user of the unit of the user of the unit of the user of

Tare Weight	Gross Weight
33 182	S87 908
10 LBS	48 LBS

A. M. Castle & Co. (Canada) Inc.

### Commercial Invoice Summary

5033934-3-3511510-2 5033934-1-3511510-2

3511510-2 **BOL Number:** 

121625932

A.M. Castle & Co. hereby certify this invoice to be true and

Delivery Nbr:

Number:

correct in all particulars

### Combined Invoice Total:

4,368.26	Grand Total
502.54	Total Tax Amount
27.888,8	Total Extended Line Amount

Signature

Page 3 of 4

	:TAV			
DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA	RY, ON K6A	1270 ABERC	AGANADY	DART AEROSPACE LTD
ОЕПУЕК ТО		OT 91HS		SOLD TO:
	38959	92909		<b>1909</b>
erms_	Customer P.O. No	oN:		I JooA
	1.10	13-FEB-2018		t/262203
Payment Terms	Due Date	paddidi	S ete C	Order No.
259	Shipping Mark: Delivery Number: 121625	NC. 79 76 STN A	Remit To: A.M. CASTL (CANADA) I DEPT 41007 PO BOX 437 TORONTO, TORONTO,	Ship From: A. M. Castle & Co. (Canada) 10c. 3060 S HYDRAULIC WICHITA KS 67216 USA
: £033934-3-3£11£10-S	nadmuM		.or	Castle Metal

Confract No. BOL #: 3511510-2

Shipped Via: XPO LOGISTICS FREIGHT

Freight/INCO Terms: Paid HAWKESBURY ON K6A 1K7 Canada

24.74	Taxes:						
\$65.04	:lstoT ar	ı!T					
				ro.com	o: clavoie@dartae	Email P/s and certs to	
						Specifications: AMS	
	A\N	EAR99	NLR	7606123030	SN	705435B6	
	AATI	ECCN	License	Tariff Code:	niginO to	Heat Number	
			froqx3		Country		
				WAS <b>JTAJ</b>	9 MUNIMUJA - :n	Process Description	
		()	NI 3.441 X (NI 000	00\0251. + ) NI 2.S	: CUT 2SIDED TO	Cutting Description	
			3.5000.144.50003.8	34.ISU.MUNIMUJA.1	0000.PL.7075.T65	Item Description: 1.	
	.04 / PCS	392	Unit Price:	rdered:1 PCS	0	Item #:752188.MO	
	1 bcs		Shipped Qty:		ne #: 3	Order #: 5033934 Li	
40.385	7.62 LBS	3.	pped Weight:	lid2 19M		Purchase Order #:	3
JnuomA	MO	ng Cost / u	ıiqqid2			Ordering Informati	#u7

Remit to Currency: USD

412.49

Invoice Total:

	.T. / /			
DART AEROSPACE LTD  1270 ABERDEEN  HAWKESBURY, ON K6A 1K7CANADA	ВУ, ОИ К6А	1KYCANADA 1270 ABERC 1RACANADA	AGANAD	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7
DELIVER TO		OT 91HS		SOLD TO:
O.U.L.	38929	1	9	2909
Terms	Customer P.O. No			1 JooA
Իayment Terms		B-2018	13-FE	2033934
Payment Terms	Due Date	Date Shipped		Order No.
7869	Delivery Number:	.DNI 976 975 STN A	M. CAST (CANADA) DEPT 4100 PO BOX 43 TORONTO	A. M. Castle & Co. (Canada) Inc. 3050 S HYDRAULIC WICHITA KS 67216 USA
	Shipping Mark:			Ship From: A. M. Gastle & Go (Capada)
EKCIPT INVOICE			Castle Metal	

BOF #: 3211210-5 Confract No. :TAV

Shipped Via: XPO LOGISTICS FREIGHT

Freight/INCO Terms: Paid HAWKESBURY ON K6A 1K7 Canada

3,500.68	:IstoT eniJ					
	<b>ЯАТІ 17А</b> Р А\И 66Я/		Tariff Code: 0606123030 0000.0	Country of Origin US S-QQ-A-250/12 S-Glavoie@dartaero	Heat Number 9388506 Specifications: AM: Email P/s and certs to	
89.002,£	200/14/PCS 5 PCS 773.13.18S	Shipping (Spied Weight: Shipped Qty: Unit Price: 3.5000.144.5000	<b>легеd:</b> 5 РСS .ALUMINUM.USI.48 7 IN ( + .1250/000	ine #; 1 0000 0000.PL.7075.T651 1: CUT 2SIDED TO 7	Purchase Order#:: Order#: 5033934 Li Item #:750616.MO Item Description: 2. Cutting Description Process Description	1
,	W011/ \$505	) prilagid2			Ordering Informat	#1
		101	OBUDO INIL MONTO			1

60'997 Taxes:

Invoice Total:

Remit to Currency: USD

77.236,E

	VAT: Contract No. BOL #: 3511510-2	TH	SS FREIGH	nipped Via: XPO LOGISTI
DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7CANADA	3A' ON K€∀ EEN	DART AERO: 1270 ABERD 1K7CANADA	ADANAS	ART AEROSPACE LTD 270 ABERDEEN AWKESBURY, ON K6A 1K7
DELIVER TO		OT 91HS		
Terms	Customer P.O. No 38929	OT GIHS		OLD TO: 50676
Payment Terms	Due Date	Shipped 810S-8	S etsO 3-7-E1	Order No. 5033934 Acct N
7869	Delivery Number:	TLE & CO. 100: 100: 100: 100: 100: 100: 100: 100	DEPT 410( DEPT 410(	WICHITA KS 67216 USA 3050 S HYDRAULIC
	Shipping Mark:	):	oT jim9A	A. M. Castle & Co. (Canada)
ERCIAL INVOICE			Castle Meta	

BOF #: 3211210-5

Freight/INCO Terms: Paid HAWKESBURY ON K6A 1K7 Canada

\$65.04 \$4.74 \$4.514	:lstoT eniJ Taxes: Invoice Total:	Remit to Currency: USD	4
	<b>ЯАТІ ИЗОЗ</b> А\И 66ЯАЭ	Tariff Code: License 7806123030 NLR	Heat Number of Origin
<b>JanomA</b> 40.∂∂£	Mou \ Jeo Z L BS 36.7.6 20.7 1 P.C.5 1 P.C.5 36.5.04 \ P.C.5 365.04 \ D. 265.04 \ D. 265.0	Shipped Weight: Shipped Qty:  "ed:1 PCS Unit Price:  "UMINUM.USI.48.5000.144.5000	Order #: 5033934 Line #: 3 Order #: 5033934 Line #: 5033934
		NV Canada	net Ordering Information

These items are controlled by the U.S. Government and authorized for export only to the country of utimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be readed in the unit in their original form or after being incorporated into other manual endings approval from the U.S. Government or as otherwise authorized by U.S. law and regulations:

412.49



A. M. Castle & Co. (Canada) Inc.

Commercial Invoice Summary

2033334-3-3511510-2 2033934-1-3511510-2

3511510-2 BOF Number:

121625932

Delivery Nbr:

Number:

Combined Invoice Total:

4,368.26 Grand Total 502.54 JnuornA xsT lstoT 3,865.72 IntomA eniJ bebnetx3 IstoT

Signature

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be authorized by U.S. Government or as otherwise authorized by U.S. Iaw and regulations.

correct in all particulars A.M. Castle & Co. hereby certify this invoice to be true and

page 3 of 4

13 February 2018 15:15:25 PM

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate deslination for use by the ultimate consignee or end-user(s), either in their original form or after being incorporated into other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other than the U.S. Government or as otherwise authorized by U.S. law and regulations:

Packaging Description         Net Weight         Tare World           TUBE 150 X 36 X 7         773 LBS         33 LBS           TUBE 150 X 4 X 4         38 LBS         10 LBS	Qty   
	TUBE 150 X 4 X 4 7 7 185 33 LBS 33 LBS

Packing Info:



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

#### PURCHASE ORDER PO038929

Tel (613) 632-5200

Supplier:

MEC002-VU

Metaux Castle P.O. Box 4090 Stn A

Toronto ON

M5W OE9 Canada

PO No:

PO038929

PO Date: Due Date: 2/1/18

2/26/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact:

Phone:

LEFR 0 2 2018

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada

Phone: 613-632-5200

Via:

Ground

Pymt Terms:

Net 30

Freight Terms: Special Comments:

			Iten	ns						
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity		Balance		Extended Price
1	M7075T73B4.000x4.000		7075-T73 Bar 4.0 X 4.0 Grain Direction Along 4" Wide : MATERIAL: 7075-T73 OR 7075- T7351/T73510/T73511 BAR PER AMS-QQ-A- 200/11 OR AMS-QQ-A- 225/9 OR AMS 4124 OR AMS-QQ-A-250/12 OR AMS 4078 receive ft	Firmed	2/26/18	48 ft	0 A		DAS 11 9-80 1 6 2018	\$5,164.0
ine Item Note	12 PCS CUT AT 4 FT LOI								4115 7510	\$874.5
2	M17-4-H1150-R4.000		17-4 SS H1150 Round Bar 4.000" : MATERIAL: 17-4 PH CONDITION H1150 receive ft	Firmed	2/26/18	6 ft -	(off	6 ft	FEB 1 3 20	
3	M7075T6S1.000X5.000		7075-T6 Sheet1" Thick Plate X 5" Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	O ft	12 ft		
4	M7075T6S1.250X2.750		M7075T6S1.250" X2.750" Cut From Plate : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	O ft	12 ft	\$34.30/ft	\$411.6

-			Ite	ms	т	1			T	T = : :
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extende Price
5	M7075T6S6.000X0.250		7075-T6S Sheet 6" Thick Plate X 0.25" Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft		2/26/18	36 ft	O ft	36 ft	\$20.75/ft	
6	M7075T6S7.000X2.000		7075-T6S Sheet 7" Thick Plate X 2" Wide: MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft		2/26/18	48 ft	5 PC5 79 75 Ft	48 ft	\$78.52/ft EB 1 6 2018	DAS 11 9-89
7	M7075T6S0.375X6.000		7075-T6S Sheet .375" Thick Plate X 6" Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	0 ft	12 ft	\$25.68/ft	\$308.1
8	M7075T6B1.000X00.250		7075-T6 Bar 1.000' X 0.250" : MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 receive ft	Firmed	2/26/18	12 ft	0 ft.	12 ft	\$9.92/ft	\$119.0
9	M7075T6S2.000X0.750	- N. S. S. C. C. F.	7075-T6S Sheet 2" Thick Plate X 0.75" Wide MAT'L 7075-T6/T62 ALUMINUM SHEET SPECS QQ-A-250/12 DR AMS-QQ-A-250/12 DR AMS 4045 OR PER ASTM B209  MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET SPECS QQ-A-250/13 DR AMS-QQ-A-250/13 DR AMS 4049 OR PER ASTM B209 eccive ft	Firmed	2/26/18	12 ft	O ft	12 ft	\$18.47/ft	\$221.64

e ,	4		Iter	ns				·		
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	, ,	Extended Price
10	M7075T6S4.500X5.000		7075-T6S Sheet 4.500" Thick X 5.000" Wide : MATERIAL: 7075- T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	6.125 ft	9 ft 48.5 md	6 ft	FEB 1 3 2016 DAS 11 9-89	
11	M7075T6S1.000X2.500		7075-T6S Sheet 1" Thick Plate X 2.5" Wide: MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft		2/26/18	12 ft	124	12 ft	\$30.42/ft FEB 1 6 2018	\$365.04 DAS 11 9-89
12	M7075T6S1.250X2.000		7075-T6 Sheet 1.250" X 2.000" : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	0 ft	12 ft	\$20.12/ft	\$241.44
13	M7075T6S0.375X5.000		M7075T6S0.375 X 5.000 : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	2/26/18	12 ft	0 ft	12 ft	\$18.10/ft	\$217.20

#### **Order Notes**

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit <a href="https://www.dartaerospace.com">www.dartaerospace.com</a> for further explanation.

 $\bigcap$ 

CX

#### Chantal Lavoie

From:

Desbiens, Marc <mdesbien@amcastle.com>

Sent:

Monday, January 22, 2018 1:34 PM

To:

Chantal Lavoie

Subject:

RE: quote

Good Morning Chantal,

price an delivery on mat'l.

7075t73 bar 4" x 4" x 12 ft cut in section of 4 ft grain direction along 4" >

Offer plate \$ 1291.00 Lot 2-3 weeks

12 pcs at 4ft

D4970-041,

17-4 h1150 round bar 4" x 6 ft

\$ 145.75 FT 8-9 days

Bar or sheet acceptable

7075t6 Sheet 1" x 5" x 12 ft \$ 21.75 Ft 2-3 weeks

7075t6 sheet 1.250" x 2.750" x 12 ft \$ 34.30 Ft 2-3 weeks

7075t6 sheet 6" x 0.250" x 36 ft \$ 20.75 Ft 2-3 weeks

7075t6 sheet 7" x 2" x 48 ft \$ 78.52 Ft 2-3 weeks /

7075t6 sheet 0.375" x 6" x 12 ft \$ 25.68 Ft 2-3 weeks-

7075t6 sheet 1" x 0.250" x 12 ft (2 pcs 6ft) \$ 9.92 Ft 2-3 weeks

7075t6 sheet 2" x 0.750" x 12 ft \$ 18.47 Ft 2-3 weeks

7075t6 sheet 4.5" x 5" x 8 ft cut in section 4 ft 50.125" Long \$ 182.19 Ft 2-3 weeks

7075t6 sheet 1" x 2.5" x 12 ft \$ 30.42 Ft 2-3 weeks

7075t6 sheet 1.250" x 2" x 12 ft \$ 20.12 Ft 2-3 weeks

7075t6 sheet 0.375" x 5" x 12 ft \$ 18.10 Ft 2-3 weeks

303 bar 1" x 3" x 12 ft \$ 107.48 FT 2 weeks

-304 bar 0.750" x 2.5" x 12 ft \$ 24.62 FT 8-9 days

\_304-bar-0.500" x 2.5" 12 ft \$ 19.93 FT 8-9 days

Round bar bronze 2.375" x 1 ft (63000 spec's) Regret

Thanks

Marc Desbiens Inside sales representative Castle Metals, Montreal, QC Direct line 514-795-8176 1-800-806-6660 ext 52226 Fax # 1-855-892-6370

Customized Supply Chain Solutions for Your Metal Needs

1

#### MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M70 DATE: FE					PO / BATC	н no.: <u>038</u>	979/5043
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	2 2			THICK			72-40-10
DESCRIPTION	(Cr	CR neck (N)			COMMEN	NTS	
SURFACE DAMAGE	Υ	N)					
CORRECT FINISH	(Y)	N		100			
CORROSION	Y	(N)				2000 20 00 00 00 00 00 00 00 00 00 00 00	
CORRECT GRAIN DIRECTION	X	N					
CORRECT MATERIAL PER M-DRAWING	Y	N	AM5-QQ-1	1-29	70		
CORRECT THICKNESS	Y	N	1			. (00	
PHOTO REQUIRED	Υ	(N)				30 MB W 100 B 100	
CORRECT REF # TO LINK CERT	X.	N	Hest # 70	543	5B6		
CORRECT MATERIAL IDENTFICATION	(Y)	N			<i>P</i> -		
CORRECT M# ON THE MATERIAL	(Ý)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)					
CUT SAMPLE PIECE			ERIAL AND PREDRD RESULTS BE		A HARDNE	SS CHECK.	
			HRC   HRE		DUR A	T DUR D	WEBSTER
TYPE OF MATERIAL							1
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READIN	١G						
	<u>te</u>	sters	located in the Quality	Office			•

ENGINEERING SIGNOFF (if required) DAS INSPECTED BY: 11 SIGNED OFF BY: \_\_\_\_ 9-89 FEB 1 6 2018 DATE: DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION



D

PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209

B

SPECIFICATION: PURCHASE MATERIAL: 7975-16/162/1651 ALCLAD ALUMINUM SHEET OR PLATE

(1)

OR.

B

1 PART NUMBER:

B

M7075T6S TTT X W.WWW

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 3048 / 4049 OR ASTM B209

WHERE ".TTT" = THICKNESS (IN INCHES) AND "W.WWWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

.TTT BY 4FT BY 10FT FOR SHEET

B PREFERRED SIZE:

RELEASED

APPROVED CHECKED MFG. APPR. APPROVED DRAWN DESIGN NEW ISSUE ADD: REF TO "PLATE", "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) D9 WM 주 유 유 7075-T6 SHEET/PLATE SPEC NTS M7075T6S DESCRIPTION DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA 망 S SHEET 1 OF DATE 10.11.08 17.05.05 REV. B

17.05.05

0

SHIP TO:

A M CASTLE & CO 3050 SOUTH HYDRAULIC WICHITA, KS 67216

Kaiser ALLIMINUM

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

#### **CERTIFIED TEST REPORT**

Serial Number 4487066

SOLD TO:

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523

135954-1		RK PACKAGE:	752188	ART NUMBER:	SHIP RUN/LOAD: 104109/21	GOVT CONTRACY N	UMBER:
KAISER ORDER NO: 1243502-1	SHIP DATE:	7075	BARE 1651	PRODUCT C KaiserSe	ESCRIPTION: lect Plate	example to commence and analysis delates be some twenty (Friends or	
WEIGHT SHIPPED: 3602 LB	GUANTITY: 5 PCS ES		0342	GAUGE: 1.0000 IN (1) (25-4000)	DIAMETER/W 48.500 IN (12	DTH: LENGTH: 144.500	IN (3670.3 MM)

AMS 4045/RevL ASTM B 209/Rev14 BSS 7055/RevB

DPS 4.713/RevAK

PS 212THROVP

Lot: 705435B6

dast 540

AMS-QQ-A-250/12/RevA ASTM B 594/Rev13

**Certified Specifications** 

CMMP 025/RevV

GAMPS 9101/RevB/AmdSCN1

AMS-STD-2154/RevC BAC 5439/RevJ

CSTI 006/RevE

GSS16100/RevG/Amd1

Test Code: 1512

**Test Results** Drop 64

Ingot 2

Parent Lot: 243261B5

Melted in USA

IASTM-E8/BSS7

(EN 2002-1)

Tensile:

Temper T651

Dir / # Tests

LT / 2 (Min:Max)

Ultimate KSI (MPA) 80.6:81.3

Yield KSI (MPA)

0.01

Elongation %

(556:561)

CR

71.7:72.0 (494:496)

13.2:13.6

(ASTM E1251)

Chemistry: Actual(wt%)

7075 MIN(wt%)

MAX(wt%)

SI FE 0.08 0.17

CU 1.4

CU

MN 0.03 MG 2.5 0.19 5.7

ZN TI

0.03

ZR

0.01

0.00

0.05

OTHER

TOT

ALLOY LIMITS

MG

2.1

SI

0.00 0.00

0.40

FE

1.2 0.50 2.0

0.00 0.30

MN

CR 0.18

ZN Ti 5.1 0.00

0.20

6.1

0.00

0.05

ZR OTHER

**EACH** 

TOT

MAX

0.05

0.15

0.04

2.9 0.28 Aluminum Remainder

ORDER COMMENTS AMC CA-15403 R 8





#### CERTIFIED TEST REPORT

Serial Number 4487066

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

#### **TEST NOTES**

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

#### CERTIFICATION

Kolser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby contiles that all material shipped under this order;

\*\*has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

\*\*All feat adjustments and measuring devices are assistated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are assisted in the United States by America or a qualifying country per DFARS 225.872-148, was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for this been thermally processed in compliance with AMS 2772, where applicable.

\*\*It is been thermally processed in compliance with AMS 2772, where applicable.

\*\*It is mirroury free, within the limits of detection of ASTM E1215 (< 1 ppm).

\*\*It is in compliance with RoHS 2. Surfagean Union Diseasive 2011(65)/EU.

\*\*Is in compliance with European Chemical Agency, ECHA, ReACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.

\*\*Is tree of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

\*\*In tree of Webt repair.

\*\*In the one of the wide repair.

\*\*In the one of the webt repair.

\*\*Any warranty is limited to that shown on Kaiser Aluminum's atendard general terms and conditions of sale. Test reports are on file, subject to examination. Fest reports shall not be reproduced except the full, without the written approval of the Keiser Aluminum laboratory. The recording of false, fictilious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

RAMPAHARLI



#### **MATERIAL RECEIPT INSPECTION FORM**

MATERIAL: 2025 A	65 EB	7.0	2000 X 2018	2.000		PO / BATC	H NO: <u>()389</u>	29/5043	
MATERIAL CERT REC'D:		51		THICKNESS ORDERED: 2000 THICKNESS RECEIVED: 2-000 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A					
DESCRIPTION	(Cł	CR neck (N)				COMMEN	TS		
SURFACE DAMAGE		(N	-						
CORRECT FINISH	N	N	1						
CORROSION	$\forall$	(N)	1						
CORRECT GRAIN DIRECTION	(9)	N			7.0				
CORRECT MATERIAL PER M-DRAWING	(Y)	N	(DA) A	7-250	100				
CORRECT THICKNESS	YY)	N	CXC /	100	11.1				
PHOTO REQUIRED	Y	(N)							
CORRECT REF # TO LINK CERT	(Y)	N	Hart	IL 93	XX	300			
CORRECT MATERIAL IDENTFICATION	(Y)	N	Fal		40				
CORRECT M# ON THE MATERIAL	(Y)	N							
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(Ñ)							
DOES THIS REQUIRE AN	•	Y							
EXTRUSION REPORT	Υ	N)							
CUT SAMPLE PIECE	OF F	MAT	ΓERIAL A	ND PREF	ORI	M A HARDNE	SS CHECK.		
			HRC	HRB		DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL									
SIZE OF TEST SAMPLE									
HARDNESS / DUROMETER READIN	_								
QC 18 INSPECTION	<u>te</u>	sters	located in	the Quality	Offic		ING SIGNOE	F (if required)	
TIME		-						(II required)	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY:

DATE:

9-89 FEB 1 6 2018

INSPECTED BY: 11





		1 CASTLE & C	COMPANY	0	A M CASILE		
	P KEN	5 ROYAL DRI	VE			L	1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523
	7 US	44				T O	ÜS
STREET, SQUARE	A M CASTLE	11053977	6 4075		INCLUSION		erial:20170527-0110539776 Pg 1of3
	CUSTOMER P 420822	URCHASE ORDE			onstellium ORD 04509		CERTIFICATION  "Constellium Rolled Products, hereby certifies the metal shipped under this order has been inspected and found in conformance with the
	ALLOY CLA 7075	\  T651 \  2	GAUGE 2.00000 in 50.80 mm	WIDTH 48.50000 1,232 mr		00 in	requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test
日本の日の日の日本日日日	ITEM ORDERE SPEC PLATE, MILL FINISH	SAWED	PS X		A	Live and the second	reports are on file, subject to examination."  Constellium Rolled Products Revenswood, LLC  859 Century Road
STATE OF THE PERSON NAMED IN	CUSTOMER'S AMS QQ-A-250	PECIFICATION 0/12A					P.O. BOX 68 RAVENSWOOD, WV 26164 USA
STREET, STREET	PART NUMBE 750616	R	B/L NUM 81380	BER	DATE SHIPPED 05/29/2017	)	Steve Graf
	WT. SHIPPED 7175.000 LB	NO.	OF PIECES	GOVT. C	ONTRACT NO.		
1		1		1			Stave Good - Laboratory Manager

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125"DEADZONE Class A AMS 4045K

AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE ASTM B209-14

BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE

CMMP025 REV U
CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE
DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE
GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE
PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

#### **Load Details**

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot	
1001519601	1,443.000	654.533	9388505	01			
1001519601	1,442.000	654.080	9388505	02			
1001524140	1,430.000	648.637	9388506	01			
1001524140	1,430.000	648.637	9388506	02			
1001524140	1,430.000	648.637	9388506	03			

Lot: 9388506

Tensile - Room Temperature (US)

	)p	Ultimate	(KSI)	Yield (K	SI)	Elongation	on (%)	Report	
Direction	Tests	Min	Max	Min	Max	Min	Max		
LT	02	82.5	82.7	72.5	72.9	13.0	13.0		





A M CASTLE & COMPANY C H 4175 ROYAL DRIVE KENNESAW GA P 30144 3

S 0 L D T 0

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

0 Pa 2of3 Serial: 20170527-0110539776 INCLUSION 110539776 4075 A M CASTLE Constellium ORDER NO. CERTIFICATION **CUSTOMER PURCHASE ORDER NO. & ITEM** 204509 "Constellium Rolled Products, hereby certifies that 420822 metal shipped under this order has been inspected and found in conformance with the ALLOY TEMPER GAUGE WIDTH LENGTH CLAD requirements of the applicable specifications as 2.00000 in 48.50000 in 144.50000 in 7075 T651 indicated herein. Any warranty is limited to that 3,670 mm 50.80 mm 1.232 mm shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test ITEM ORDERED reports are on file, subject to examination." SPEC PLATE, SAWED MILL FINISH Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 CUSTOMER SPECIFICATION RAVENSWOOD, WV 26164 USA AMS QQ-A-250/12A B/L NUMBER DATE SHIPPED PART NUMBER 05/29/2017 750616 WT. SHIPPED NO. OF PIECES GOVT, CONTRACT NO. 7175,000 LB 000005 Steve Good - Laboratory Manager Tensile - Room Temperature (SI) Report Yield (N/MM2) Elongation (%) Ultimate (N/MM2) Max Min Max Min Direction Tests Min Max 13.0 13.0 503 02 569 570 500 LT Chemistry (Actual) CR ZN TI ZR FE CU MN MG 0.03 2.60 0.22 5.73 0.04 0.01 0.07 0.15 1.51 Core OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER All material contained in this lot was cast and manufactured in the USA Lot: 9388506 Tensile - Room Temperature (US) Report Yield (KSI) Elongation (%) Ultimate (KSI) Min Max Min Max Direction Tests Min Max

82.3

72.0

72.8

11.5

12.5

02

81.8

LT





													( 1964 4 6 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
S	AM	CAST	TLE &	CON	<b>MPANY</b>						S		A M CASTLE		
H		VESAV	AL DF V GA	RIVE							D L		1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523		
7 0	ÜS	***									T 0		US		
AMC	ASTLE	1	105397	76	4075			INCLUS	SION	I	Se	ria	al:20170527-0110539776 Pg 3of3		
CUST 42082		RCHAS	SE ORI	DER N	NO. & ITEN	1		onstell 04509	ium	ORD	ER NC	٥.	CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been		
ALLO 7075	Y CLAD	TE T6	MPER 51	2.00	IGE 000 in 0 mm	WID7 48.50 1,232	1000		144	NGTH 1.5000 70 mr	00 in	inspected and found in conformance w requirements of the applicable specifical indicated herein. Any warranty is limited shown on Constellium Rolled Products':			
SPEC	ORDERED PLATE, S FINISH				And the second second second second second second					•			General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road		
	OMER SPI QQ-A-250/		ATION									-	P.O. BOX 68 RAVENSWOOD, WV 26164 USA		
PART 75061	ART NUMBER B/L NUMBER DATE SHIPPED 05/29/2017								Steve Gul						
	HIPPED 000 LB			0. OF	PIECES	GOVT	. C	ONTRA	CTN	VO.		1			
SECTION ASSESSMENT			SERVICE AND ADDRESS OF		energy and Street Appropriate	MORNIO MARIO	MX00000	successive expressive	ej en en en en en en	телтуривы	530 STEERE 60		Steve Good - Laboratory Manager		
Tensi	le - Room	Tempe			te (N/MM2	`	Yie	eld (N/N	1M2)	)	E	loi	ngation (%) Report		
ī	Direction	Tests		1in	Max	L	Mir	n	M	ax		/lin			
	_T	02	5	64	567		49	6	50	)2	1	1.	5 12.5		
Chem	istry (Actu	ıal)													
Core		SI 0.07	FE 0.15	CU 1.51	MN 0.03	MG 2.60	0.2		V 73	TI 0.04		.01			
ОТНЕ	ERS-EACH	: .05 M	AX. OT	THER	S TOTAL:	.15 MA	Х.	AL REN	IAIN	DER					
All ma	iterial con	tained	in this	lot w	as cast an	d man	ufa	ctured	n th	e US/	Ą				
	LITY TEXT CA-15403A														

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT

WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399

WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8: 8557

DUNS Number: 090570149; CAGE Code: 1YWL9

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product. "END OF CERTIFICATION"

P-860-155D REVISED: 10 2014

APPR. LL M7075T6S

WM TITLE

APPR. DS- TOT5-T6 SHEET/PLATE SPEC NTS

NIS COLOMOR SWITT STREED STREED STREED STREET REV. B SCALE NTS 17.05.05 SHEET 1 OF 1 10.11.08 СР 품 ADD: REF TO "PLATE" T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) DESCRIPTION АРРВОУЕD WM DE APPR. D9-NEW ISSUE DRAWN CHECKED MFG. APPR. DESIGN REV. 3 **DENONED** SPECIFICATION CONTROL DRAWING RELEASED 2017 JUN 19 47 ECN 17-574 WHERE ".TTT" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE) EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500 ≜ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE (B) PURCHASE MATERIAL: 7075-T6T62/T651 ALUMINUM SHEET OR PLATE QQ-A-250/12 QR AMS-QQ-A-250/12 OR AMS-4045 OR ASTM B209 QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209 TTT BY 4FT BY 10FT FOR SHEET M7075T6S TTT X W.WWW THK WIDTH SPECIFICATION; B PREFERRED SIZE: SPECIFICATION: SR. 9 1 ۵ O

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U

#### MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M707: DATE: FF	)†/ B11	73 <i>64</i> 6 201	<u>4.000</u>	PO / BATCH NO.: 038929 / SO 4334							
MATERIAL CERT REC'D: // QUANTITY RECEIVED: // QUANTITY INSPECTED: // QUANTITY REJECTED: //	es 48 48'	(		THICKNESS ORDERED: 4.000 THICKNESS RECEIVED: 4.000 SHEET SIZE ORDERED: V/A SHEET SIZE RECEIVED: 4/A							
DESCRIPTION	(Cr	CR neck (N)			COMMEN	ITS					
SURFACE DAMAGE	Υ	IN									
CORRECT FINISH	O	N				·					
CORROSION	Y	(N)									
CORRECT GRAIN DIRECTION	(Y)	N									
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS.	-CZ-QA-2	50						
CORRECT THICKNESS	(Y)	N									
PHOTO REQUIRED	X	(N)									
CORRECT REF # TO LINK CERT	X	N	Heat I	F 22900	ORM - 24	5076135					
CORRECT MATERIAL IDENTFICATION	(X)	N			93 01	10100					
CORRECT M# ON THE MATERIAL	(Y)	Ν									
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(Ñ)									
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N									
		<u> </u>			40						
CUT SAMPLE PIECE				ND PREFOR		SS CHECK.					
	Ť		HRC	HRB	DUR A	DUR D	WEBSTER				
TYPE OF MATERIAL			1110	DONA	DOND	VVLBSTER					
SIZE OF TEST SAMPLE											
HARDNESS / DUROMETER READIN											

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:_	DAS	SIGNED OFF BY:
DATE:	9-8FEB 1 6 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





DESIGN	DRAWNY BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA							
CHECKED	APPROVED	DRAWING NO. M7075T73B	REV. A						
DATE		TITLE	SCALE						
01.	06.08	7075 - T73 BAR	NTS						
A	01.06.08	NEW ISSUE							

PURCHASE MATERIAL:

7075-T73 (OR 7075-T7351/T73510/T73511) BAR PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 (AMS 4124) OR AMS-QQ-A-250/12 (AMS 4078)

PART NUMBER:

M7075T73BT.TTT X WW. WWW WHERE T.TTT = THICKNESS (IN INCHES)
THICK WIDTH WIDTH (IN INCHES)

EG. 2.5" X 3.25" BAR = M7075T73 B2.500 X 03.250



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SHIP TO:

A M CASTLE METALS 4175 ROYAL DRIVE, SUITE 600 KENNESAW, GA 30144

SOLD TO:

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215 .

Phone: (800) 367-2586

#### CERTIFIED TEST REPORT

Serial Number 4470032

SHIP RUN/LOAD: GOV'T CONTRACT NUMBER: WORK PACKAGE: | CUSTOMER PART NUMBER: CUSTOMER PO NUMBER: 752132 103978/17 429644-1 PRODUCT DESCRIPTION: TEMPER SHIP DATE: ALLOY CLAD KAISER ORDER NO: BARE T7351 KaiserSelect Plate 13-JUL-2017 7075 1239797-1 DIAMETER/WIDTH: LENGTH: WEIGHT SHIPPED: QUANTITY: TRUCK BIL #: GAUGE 1.0000 IN 8.500 IN 144.500 IN 5690 LB 2 PCS EST. 2067864 (1231.9 MM) (3670.3 MM) (101,6000 MM)

MHU 2127812: LOT 229000B5: 1 pieces; MHU 2127613: LOT 229000B5: 1 pieces;

**Certified Specifications** 

AMS 4078/RevJ ASTM B 209/Rev14 BSS 7055/RevB DPS 4.713/RevAK MMS 159/RevT

AMS-00-A-250/12/RevA ASTM B 594/Rev13 CMMP 025/RevV GAMPS 9101/RevB/AmdSCN1 PS 21211/RevP

AMS-STD-2154/RevC BAC 5439/RevJ CSTI 006/RevE GSS16100/RevG/Amd1

Test Code: 4297

Lot: 229000B5

Cast 476

Drop 16

Ingot 5

Melted in USA

(ASTM E8985571

(EN 2002-1)

Tensile:

Temper

Dir / # Tests

Ultimate KSI (MPA)

**Test Results** 

Yield KSI (MPA)

Elongation %

T7351

LT / 3 (Min:Max)

63.7:64.6

50.4:51.8

10.6:10.8

(439:445)

(348 : 357)

(ASTM E1004)

(EN 2004-1)

Conductivity %IACS:

41.3 Min

41.6 Max

(MS/M):

24.0 Min

24.1 Max

(ASTM E1251)

Chemistry: Actual(wt%) 0.08

SI

FE 0.17

CU 1.5

MN 0.03 MG CR 0.20 2.4

ZN 5.7 0.03 0.01

ZR 0.02

OTHER 0.05 TOT





#### CERTIFIED TEST REPORT

Serial Number 4470032

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

ALLOY LIMITS

7075	SI	FE	CU	MN	MG	CR	ZΝ	TI	V	ZR	OTHER	MAX
MIN(wt%)		0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15
				Alu	minum R	emainder						

ORDER COMMENTS AMC CA-15413E R 6

#### **TEST NOTES**

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead comes top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

#### CERTIFICATION

Keiser Aluminum, Trentwood Works, is ISO 9001, ASS100, and ISO 14001 certified, and horeby certifies that all material shipped under this order.

Thes been inspected, testad, and found to be in conformance with the requirements of the specifications indicates therein.

All test equipment and measuring devices are Calcinsted and certified in accordance applicable specifications. For materior thicknosses outside specification limits, mechanical properties are as shown harder and chemistal compagnition media specifications. Reported alongation values have been measured as alongation of tracture domestic content.

Was mented in the United States of America or a qualifying country per DFARS 255.872-11at, was manufactured in the United States of America, and material the forquirements of DFARS 252.225 for domestic content.

The been thermally processed in compliance with AMS 2772, whore approachs.

The mecury free, within the limits of defection of ASTM 69275 For popping.

The incompliance with RoMS 2, corporal United Directive 2013 (4558).

The compliance with RoMS 2, corporal United Directive 2013 (4558).

The conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

\* is tree of Conflict Minorals, as defined in Section 19.2 of the Doddingent Age.
\*\* If the of the well open,
\*\* The first of the well open,
\*\* The interior is well open,
\*\* Interior to well open,
\*\* The interior is written as ENTCOM, Type 3.1,
\*\* Any warranty is limited to that shown on reason Aluminum's standard general terms and conditions of sale. Test reports are on life, subject to examination. Test reports and not be reproduced except in
\*\* The variance is limited to that shown on reason Aluminum's standard general terms and conditions of sale. Test reports are on life, subject to examination. Test reports and not be reproduced except in
\*\* The variance is life, subject to examination. Test reports a new particular tests are on life, subject to examination. Test reports a new particular tests are on life, subject to examination. Test reports a new particular tests are on life, subject to examination. Test reports a new particular tests are on life, subject to examination.
\*\*The variance is a subject to examination of the variance is a subject to examination of the variance is a subject to examination.
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JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2





#### CERTIFIED TEST REPORT Constellium Rolled Products

		ACCOUNT OF THE PARTY OF THE PAR	
	A M CASTLE & COMPANY	S	A M
S	A M CASTLE & COMPANY	0	
H	4175 ROYAL DRIVE	L	1420
1	KENNESAW GA	D	DAK
P	30144		US
1 - 1	US	1 1	
		0	

Ravenswood, LLC

CASTLE

KENSINGTON ROAD, SUITE 220 BROOK IL

o A M CAS	TLE	11053	9776	4075	and the same of th	INCLUS	SION Seri	ial:20170527-0110539776 Pg 1of3
CUSTON 420822	ER PURC	HASE O	RDER N	O. & ITEM		Constell 204509	lium ORDER NO.	CERTIFICATION  "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the
ALLOY 7075	CLAD	TEMPE T651	2.00	GE 000 in 0 mm	WIDTH 48.500 1,232	100 in	LENGTH 144.50000 in 3,670 mm	requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test
ITEM OF SPEC PL MILL FIN	_ATE, SA\	WED				and and an arrangement of the second	was defined as the second as pro-	reports are on file, subject to examination."  Constellium Rolled Products Ravenswood, LLC  859 Century Road  P.O. BOX 68
CUSTON AMS QC	MER SPEC 1-A-250/12	CIFICATIO !A	)N				* AN 1 2 2 2 AN 10	RAVENSWOOD, WV 26164 USA
PART N 750616	UMBER			B/L NUME 81380		05/29	SHIPPED /2017	Steve Gul
WT. SHI 7175.00			NO. OF 000005	PIECES	GOVT.	CONTRA	ACT NO.	Steve Good - Laboratory Manager

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125"DEADZONE Class A AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE AMS 4045K

ASTM B209-14 BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE

CMMP025 REV U

CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

#### Load Details

Details		8 .8.		0'	Serial	Parent Lot
Package	Net Lbs	Kg	Lot	Piece	Seliai	1 GICIII LOI
1001519601	1,443.000	654.533	9388505	01		
1001519601	1.442.000	654.080	9388505	02		
1001524140	1.430.000	648.637	9388506	01		
1001524140	1,430,000	648.637	9388506	02		
1001524140	1.430.000	648.637	9388506	03		
1001024140	1,700,000					

#### Lot: 9388505

Tensile - Room Temperature (US)

isile - Room	Tempera	ture (US) Ultimate	(KSI)	Yield (K	SI)	Elongation	(%)	Report
Direction	Tests	Min	Max	Min	Max	Min	Max	NOTE TO ADMINISTRATION OF THE PARTY OF THE P
LT	02	82.5	82.7	72.5	72.9	13.0	13.0	





12.5

11.5

72.8

72.0

A M CASTLE 5 1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 A M CASTLE & COMPANY 0 s L 4175 ROYAL DRIVE KENNESAW GA H D P US 30144 115 0 T Pa 2of3 Serial:20170527-0110539776 D INCLUSION 4075 110539776 A M CASTLE CERTIFICATION Constellium ORDER NO. \*Constellium Rolled Products, hereby certifies that CUSTOMER PURCHASE ORDER NO. & ITEM metal shipped under this order has been 204509 inspected and found in conformance with the 420822 requirements of the applicable specifications as LENGTH indicated herein. Any warranty is limited to that WIDTH 144.50000 in TEMPER GAUGE CLAD 48.50000 in shown on Constellium Rolled Products' standard ALLOY 2.00000 in T651 3,670 mm General Terms and Conditions of Sales. Test 7075 1,232 mm 50.80 mm reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC ITEM ORDERED SPEC PLATE, SAWED 859 Century Road MILL FINISH P.O. BOX 68 RAVENSWOOD, WV 26164 USA CUSTOMER SPECIFICATION AMS QQ-A-250/12A DATE SHIPPED B/L NUMBER PART NUMBER 05/29/2017 81380 750616 GOVT. CONTRACT NO. NO. OF PIECES WT. SHIPPED Steve Good - Laboratory Manager 000005 7175,000 LB Tensile - Room Temperature (SI) Report Elongation (%) Yield (N/MM2) Ultimate (N/MM2) Max Min Max Min Max Min Direction Tests 13.0 13.0 503 500 570 569 02 LT Chemistry (Actual) ZR TI ZN CR MG MN CIL FE SI 0.01 0.04 5.73 0.22 2 60 0.03 1.51 0.15 0.07 Core OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER All material contained in this lot was cast and manufactured in the USA Lot: 9388506 Tensile - Room Temperature (US) Report Elongation (%) Yield (KSI) Ultimate (KSI) Max Min Max Min

Max

82.3

Min

81.8

Tests

02

Direction

LT

SHIP TO:

A M CASTLE & CO 3050 SOUTH HYDRAULIC WICHITA, KS 67216

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

#### CERTIFIED TEST REPORT

Serial Number 4487066

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523

CUSTOMER PO NUMBER: WC			K PACKAGE:		ISTOMER PA 52188	RT NUMBER:	1	T.E. DALL	RUN/LOAD:  GOV 109/21	/T CO	NTRACT NUMBER:	
			SHIP DATE: 24-NOV-20	17	7075	CLAD: BARE	TEMPER T651		PRODUCT DESCR KaiserSelect (			THE STATE OF THE S
The court of the c		T. 207			GAUGE: 1.0000 I	N 25.4000 M		DIAMETER/MIDTH: 48,500 IN (1231.9)		LENGTH: 144.500 IN	(3670.3 MM)	

MHU 2164380: LOT 70543586: 5 pieces;

#### **Certified Specifications**

AMS 4045/RevL ASTM B 209/Rev14 BSS 7055/RevB DPS 4.713/RevAK PS 21211/RevP

AMS-QQ-A-250/12/RevA ASTM 8 594/Rev13 CMMP 025/RevV GAMPS 9101/RevB/AmdSCN1 AMS-STD-2154/RevC BAC 5439/RevJ CSTI 006/RevE GSS16100/RevG/Amd1

Test Code: 1512

Lot: 705435B6

Cast 540

Drop 64

**Test Results** 

Ingot 2

Parent Lot: 243261B5

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:

Temper T651

Dir / # Tests

Ultimate KSI (MPA)

Yield KSI (MPA)

Elongation %

LT / 2 (Min:Max)

80.6:81.3 (556:561)

71.7:72.0 (494:496) 13.2:13.6

(ASTM E1251)

OTHER 78 CR ZN TI Chemistry: SI FE CU MN MG 0.01 TOT 0.04 0.03 0.01 0.08 0.17 1.4 0.03 2.5 0.19 5.7 Actual(wt%)

**ALLOY LIMITS** 

ZR OTHER MAX MN CR ZN TI SI FE CU MG 7075 EACH 2.1 0.00 0.00 0.05 1.2 0.00 0.18 5.1 0.00 0.00 0.00 MIN(wt%) 0.05 0.05 TOT 0.15 2.9 0.28 6.1 0.20 0.40 0.50 2.0 0.30 MAX(W1%)

Aluminum Remainder

ORDER COMMENTS AMC CA: 15403 R 8





CERTIFIED TEST REPORT

Serial Number 4487066

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

#### TEST NOTES

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is

Kaisar Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, end hereby certifies that all material shipped under this order:

\* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

All test accument and measuring devices are calibrated and certified in accordance applicable specifications, for materials thicknesses outside specification at fracture.

All test accument and measuring devices are calibrated and certified in accordance applicable specifications, for materials thicknesses outside specification at fracture.

All test accuments and measuring devices are calibrated and certified in accordance applicable specifications, for materials are deviced as shown herein and shomical demposition meets applicable.

\*\*as melted in the United States of America or a qualifying country per DFARS 225.872-1left, was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.

\*\*is a been thermally processed in compliance with AMS 2772, where applicable.

\*\*is in compliance with finite of detection of ASTM £12.15 (< 1ppm).

\*\*is in compliance with BUHS 2, European Union Directive 20.11/65/EU.

\*\*is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaisar regularly monitors these regulations for updates.

\*\*is free of weld repair.

\*\*is free of weld repair.

\*\*in the regulation of EN10204, Type 3.1.

\*\*meast the regoriting requirements of EN10204, Type 3.1.

\*\*meast the regoriting requirements of EN10204, Type 3.1.

\*\*Any warranty is limited to that shown on Kaisar Aluminum's standard general terms and conditions of readulant statements or entries on the certificate may be punished as a felony under tederal low.

Any warranty is limited to that shown on Kaisar Aluminum's standard general terms and conditions or fraudulent statements or entries on the certificate may be punished as a felony under tederal low.

Page 2 of 2